



Naval Facilities Engineering Service Center

1100 23rd Ave, Port Hueneme, CA 93043-4370

Company Description

The Naval Facilities Engineering Service Center provides worldwide engineering support to US Navy and Marine Corps facilities. We are seeking motivated mechanical, electrical, civil, materials, and environmental engineering and science graduates with a desire to work on fast-paced, real-world engineering problems in support of our country at home and overseas. Must be willing to travel around the globe. The Center provides support in the following areas:

Amphibious and Expeditionary Engineering

- Systems to move equipment from ship to shore during Marine Corps amphibious landings
- Innovative expeditionary technologies for support of Marine Corps ashore
- Port security technologies including barriers to protect Navy ships from terrorist attacks
- Unmanned surface vessels (RoboSki and RoboRaider)
- Chem-bio detection and decontamination technologies for terrorist defense
- Robotics and control technologies for cargo movement in heavy seas
- Computer-based logistics systems

Energy and Utilities Engineering

- Utility systems optimization (fuel, steam and water distribution systems)
- Utility metering technologies
- Plant design, testing, inspection and construction
- Energy and utilities controls
- Fuel system design, testing, and construction
- Predictive maintenance (vibration analysis, infrared thermography, etc.)
- Web enabled database and information management systems

Environmental Engineering

- Pollution prevention
- Weapon system environmental support
- Site cleanup and restoration
- Compliance
- Technology and information transfer
- Conservation

Ocean Facilities Engineering

- Ocean construction
- Hyperbaric systems
- Offshore structures including mobile offshore bases
- Underwater diver construction tools
- Moorings/anchors for large ocean structures
- Navy construction diver support
- Underwater cable facilities and systems

Shore Facilities Engineering

- Waterfront materials and structures
- Facilities Security Systems
- Airfield pavements
- Engineering Management Systems

Qualifications

- Must be a U.S Citizen
- Mechanical, Electrical, Civil, Environmental Engineers or Environmental Scientists

NAFESC is located on the Southern California coast between Santa Barbara and Malibu at the Naval Base Ventura County. NAFESC offers an Equal Employment Opportunity.

Contact

Director, Administrative Division
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Submit resumes at: www.usajobs.opm.gov

Job Descriptions

Amphibious and Expeditionary Department - Mechanical/Civil Engineer Job Description

Perform engineering functions in support of Navy amphibious and Marine Corps expeditionary forces. Propose and analyze new technologies for achieving Navy and Marine Corps logistics and warfighting missions. Design new water- and land-based systems. Perform hydrodynamics analyses of systems in high sea states. Develop prototypes, either through use of contractor support or at our in-house General Use Laboratory. Test and evaluate prototype systems at designated Navy and Marine Corps facilities or participate in demonstrations in conjunction with military exercises in the United States and overseas. Provide consultation to military personnel in safe and effective operation and maintenance of amphibious and expeditionary systems and equipment. Develop design drawings and detailed and performance specifications. Develop test plans, test reports, technical manuals, fleet service bulletins, and other documents in support of system development and acquisition. Provide expert services in innovative areas including port security technologies, unmanned surface vessels, robotic ship crane operations, intuitive joystick controls, logistics information technology, new propulsion technologies, corrosion control in sea-based environments, chem-bio detection, and associated communications and control systems.

Energy and Utilities Department - Mechanical/Electrical Engineer Job Description

Provide assistance in engineering analyses, comprehensive studies, and investigations that affect energy and utility systems and critical power support systems of the Navy and Marine Corps. Functions include, but not limited to, assisting senior engineers in the preparation and review of engineering calculations, drawings, economic analyses, specifications, technical manuals, logistic support analyses, equipment inspections and failure analyses. For Mechanical Engineers, emphasis in thermodynamics, fluid mechanics, heat transfer view of engineering calculations, drawings, economic analyses, specifications, technical manuals, logistic support analyses, equipment inspections and failure analyses. For Electrical Engineers, emphasis in fundamentals of power engineering, power conversion, transformers, load flow analysis, power quality, transformers, power network models, circuit analysis, test equipment drawings, economic analyses, specifications, technical manuals, logistic support analyses, equipment inspections and failure analyses. Perform engineering evaluations supporting construction, operations, and maintenance problems at power/thermal plants and related distribution systems; identify and implement the most cost effective energy efficiency improvements, assist in identifying equipment deficiencies, gather facts and data, perform calculations and analyses, set up and conduct tests, interpret test data and results, devise solutions, prepare reports, and recommend remedial action.

Ocean Facilities Department - Ocean/Mechanical/Electrical/Civil Engineer Job Description

Provide assistance in designing, analysis and experimentation, and installation and servicing of equipment related to the Navy and Marine Corps Ocean Facilities. Functions include, but are not limited to, assisting senior engineers in the preparation of design packages, test plans, at-sea testing, and data reduction. Emphasis in structures, mechanical design, fluid mechanics, soils engineering, and an overall penchant for the ocean sciences. Perform engineering evaluations supporting heavy lift over boarding equipment, seafloor structures, undersea cable installation analysis, dynamic analysis, and waterfront security. Work may involve at-sea operations aboard on various vessels and operation of remotely operated vehicles

Environmental Department - Environmental Engineering Job Description

Perform project planning and management; conduct technical research and development; performs tests and evaluations; develops technology packages; transfers new technologies to users, and provides technical consulting and advisory services in the fields of environmental engineering and natural sciences. Work with technologies in pollution prevention, compliance, characterization, remediation, site restoration and closeout for Navy/Marine Corps, DoD, and other Government agencies; provide general technical oversight to contractors; and perform technical consulting and advisory services for the Pollution Prevention, Compliance, and Environmental Restoration Divisions. Provide customer-oriented technology support to NAVFAC engineering field facilities.

Shore Facilities Department - Civil/Structural Engineer Job Description

Provide assistance in designing, performing analysis and experimentation, construction, repair and upgrade of Navy and Marine Corps Shore Facilities. Functions include, but are not limited to, assisting senior engineers in the preparation of design packages, test plans, physical testing, data reduction and report writing. The emphasis is on structural engineering, dynamic non-linear analysis and numerical analysis. The work involves analysis, design and site selection of facilities to resist the effects of accidental explosions and terrorist attacks. Other projects may involve the structural condition assessment and development of repair or upgrade concepts for Navy piers or wharves. The work will be under the guidance of senior engineers who are assisting Navy activities throughout the world.